Patent Claims:

1. Device for producing plastic pipes with an extruder, a pipe head (1) connected in the direction of production, and a calibrating station (3), which displays calibrating tools (40) that make contact with the outside wall of the pipe (10), characterized by the fact that as calibrating tools a multiplicity of lamellae (40) are arranged so as to be distributed, spaced apart from each other, over the circumference of the pipe (10) to be calibrated; also, seen in the production direction of the pipe (10), provision is made for a number of such lamella rings (42, 43), whose lamellae (40) in each case are arranged in the gaps between the lamellae (40) of the preceding lamella ring.

2. Device according to claim 1, characterized by the fact that the adjustment of the lamellae (40) takes place by motorized means.

3. Device according to claim 1, characterized by the fact that the adjustment of the lamellae (40) takes place manually.

4. Device according to claim 1, characterized by the fact that the lamellae are formed as adjusting segments that, seen in the longitudinal direction of the pipe, create ring-shaped bodies, the individual segment strips forming these bodies interlocking in a meshing manner.

5. Device according to the precharacterizing clause of claim 1, characterized by the fact that the calibrating tools are formed as rollers, which make contact with the outer side of the pipe, and the theoretical diameter formed by the rollers is adjustable.

6. Device for producing plastic pipes with an extruder, a pipe head (1) connected to the extruder in the direction of production, and a calibrating station (3), in which calibrating tools make contact with the outside wall of the pipe (10), characterized by the fact that during the production phase the mass-gap of the pipe head (1) is adjustable and connected to the outlet of the pipe head (1) is a vacuum suction lock (2) that acts upon the outside of the not-yet-hardened pipe (10), through which vacuum suction lock the mass-extrusion diameter is changed in a controlled manner; furthermore, in the calibrating station (3) connected to the vacuum suction lock (2) different pipe diameters can be set during the production phase and provision is made for a vacuum calibrating bath (4) connected to the calibrating station (3), in which bath the pipe (10) is cooled and

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hardened, and leaves the vacuum calibrating bath (4) through a vacuum seal (9) that adjusts automatically to the pipe diameter.